



Linux Learning Centre

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Training & Certification

Programmes at LLC

LLC102: Essentials of Linux OS
LLC103: Linux System & Network Administration
LLC203: Linux Advanced Administration
LLC303: Linux System & Network Monitoring Tools
LLC104: Linux Internals & Programming Essentials
LLC105: Programming with Qt
LLC106: Device Driver Programming on Linux
LLC107: Network Programming on Linux
LLC108: Bash Shell Scripting Essentials
LLC109: CVS on Linux
LLC204: MySQL on Linux
LLC205: Programming with PHP
LLC206: Programming with Perl
LLC207: Programming with Python
LLC208: PostgreSQL on Linux
LLC209: Joomla CMS
LLC403: Omail Server Administration
LLC404: Postfix Mail Server Administration
LLC405: Linux Firewall Solutions
LLC406: Open LDAP Server Administration
LLC408: Samba Server Administration
LLC409: DNS Administration
LLC410: Nagios - System & Network Monitoring Software
LLC412: Apache & Secure Web Server Administration
LLC501: Programming with OpenGL
LLC504: Linux on Embedded Systems
LLC602: Linux Apache MySQL & PHP (LAMP)
RH033: Red Hat Linux Essentials
RH133: Red Hat Linux System Administration
RH253: Red Hat Linux Network & Security Administration
RH301: Red Hat Rapid Track Certification Course
RHS333: Red Hat Enterprise Security : Network Services
RH423: Red Hat Enterprise Directory Services & Authentication
RHS429: Red Hat Enterprise SELinux Policy Administration
RH401: Red Hat Enterprise Deployment & Systems Management
RH436: Red Hat Enterprise Clustering & Storage Management
RH442: Red Hat Enterprise System Monitoring & Performance Tuning
RH142: Linux Troubleshooting Techniques & Tools
RH184: Red Hat Enterprise Linux Virtualization
SUSE3071: SUSE Linux Enterprise Server Fundamentals
SUSE3072: SUSE Linux Enterprise Server Administration
SUSE3073: SUSE Linux Enterprise Server Advanced Administration

Red Hat Linux System Administration

Course Overview

For users of Linux (or UNIX) who want to start building skills in systems administration on Red Hat Enterprise Linux, to a level where they can attach and configure a workstation on an existing network. This 4 day course provides intensive hands-on training on Red Hat Enterprise Linux 5.

Pre-Requisites

RH033 Red Hat Linux Essentials or equivalent experience with Red Hat Linux.

Target Audience

Linux or UNIX users, who understand the basics of Red Hat Linux, that desire further technical training to begin the process of becoming a system administrator.

Course Material

The official courseware from Red Hat will be provided during the training.

Post Training Support

Candidates can clarify any doubts on the topics covered in the course over email for a period of 30 days after the conclusion of the course.

Duration

Four Days: 10 am - 5.30 pm

Course Fee

Rs. 6,000/- (plus 10.3% service tax)

Mode of Payment

The course fee has to be paid completely in advance by cash / Credit-Debit Card / Cheque / Demand Draft payable in Bangalore City in favour of "**Linux Learning Centre Private Limited**". The registration can be forwarded along with the payment by hand or by courier.

Course Outline

- System Initialization
 - Boot Sequence
 - Boot Loader Components
 - GRUB and grub.conf
 - Kernel Initialization
 - init Initialization
 - Run levels; /etc/rc.d/rc.sysinit, /etc/rc.d/rc
 - System V run levels; - /Etc/rc.d/rc.local
 - Controlling Services
- Package Management
 - RPM Package Manager
 - Installing and Removing Software
 - Updating a Kernel RPM; rpm Queries, rpm Verification
 - About yum; using yum
 - Searching packages/files
 - Configuring Additional Repositories
 - Creating a private repository
 - Red Hat Network Server; Entitlements
 - Red Hat Network Client
- Kernel Services
 - Kernel Modules, Kernel Images & Variants
 - Managing the initrd image
 - Accessing Drivers through /dev
 - Kernel Configuration with /proc
 - sysctl: Persistent Kernel Configuration
 - Monitoring Processes and Resources
- System Services
 - Network Time Protocol; syslog Configuration
 - Xorg Server Configuration; Remote X Sessions
 - Virtual Network Computing; SSH: Secure Shell
 - System crontab Files; Daily Cron Jobs; CUPS
- User Administration
 - Adding a New User Account; User Private Groups
 - Group Administration; Modifying/Deleting Accounts
 - Password Aging Policies
 - Switching Accounts, sudo
 - Network Users
 - Authentication Configuration; NIS Client Configuration
 - LDAP Client Configuration; File Ownership
 - Linux File Permissions; SUID / SGID Executables
 - The Sticky Bit; The SGID Directories
 - Default File Permissions; Access Control Lists (ACLs)
 - SELinux, SELinux Targeted Policy, Management
- Filesystem Management
 - Device Recognition; Disk Partitioning
 - Managing Partitions; Making Filesystem
 - Filesystem Labels; tune2fs
 - Mount Points and /etc/fstab; Mounting Filesystems
 - Handling Swap Files and Partitions
 - Mounting NFS Filesystems; Automounter
- Advanced Filesystem Management
 - Configuring the Quota System
 - Software RAID Configuration & Recovery
 - Creating & Resizing Logical Volumes
 - Archiving tools: tar, dump/restore, rsync
- Network Configuration
 - Network Interfaces; IPv4 Addresses; Device Aliases
 - Routing table; Default gateway; Verify IP connectivity
 - Defining Local Host Name; Verify DNS Connectivity
 - Network Configuration Utilities
 - Transparent Dynamic Configuration
 - Ipv6: Dynamic & Static Interface Configuration
 - New and Modified Utilities
- Installation
 - Boot Media, Accessing Installer, Installation Method
 - Configuring File System; Advanced Partitioning
 - Starting Kickstart Installation
 - Kickstart: %pre, %post
- Virtualization with Xen
 - Hardware Considerations; Preparing Domain-0
 - Virtual Resources; Domain-U Configuration
 - Domain Management with xm
 - Activating Domains on boot
- Troubleshooting
 - Method of Fault Analysis; Gathering Data
 - Order of the Boot Process
 - Filesystem Corruption & Recovery
 - Recovery Run-levels; Rescue Environment